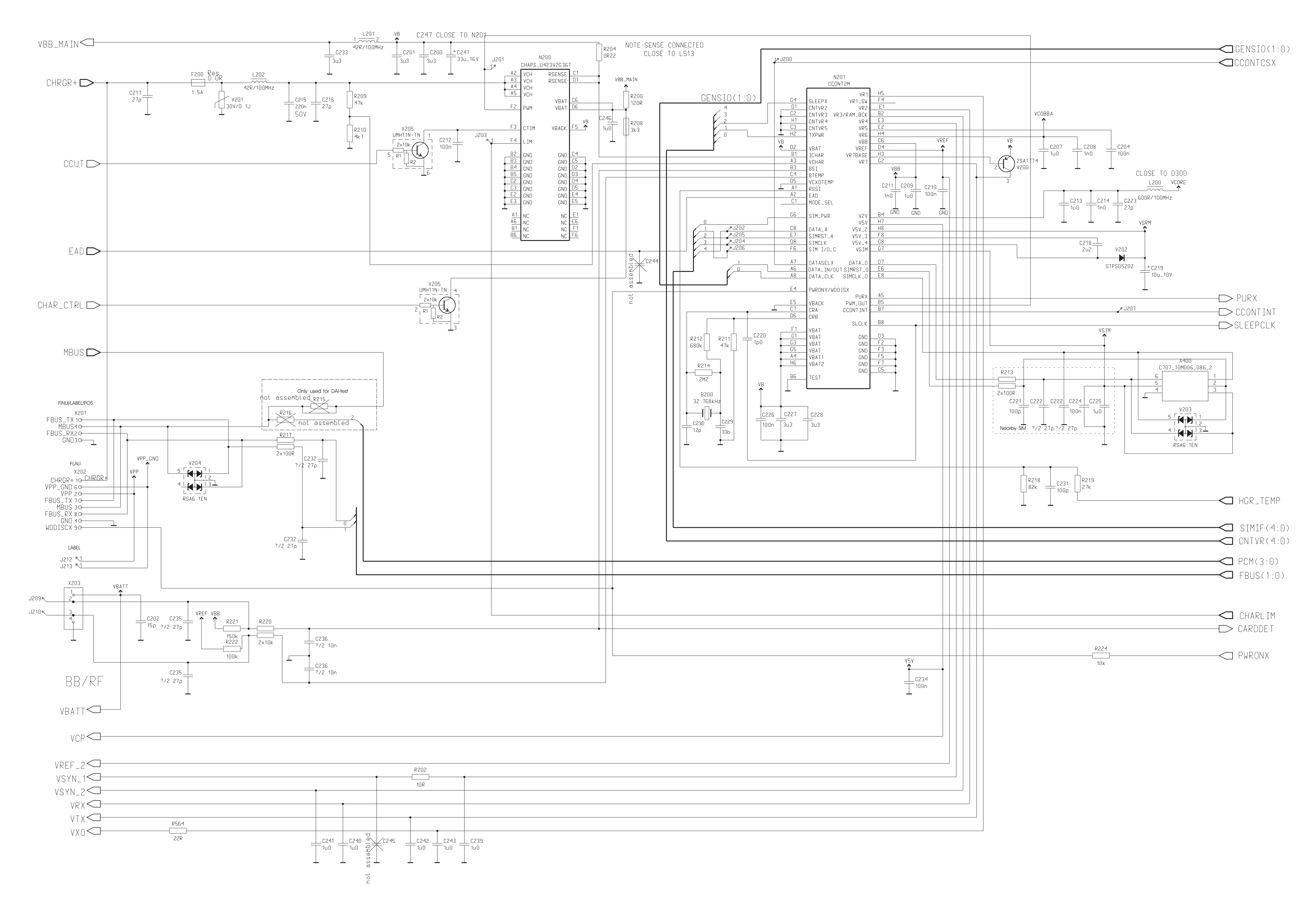
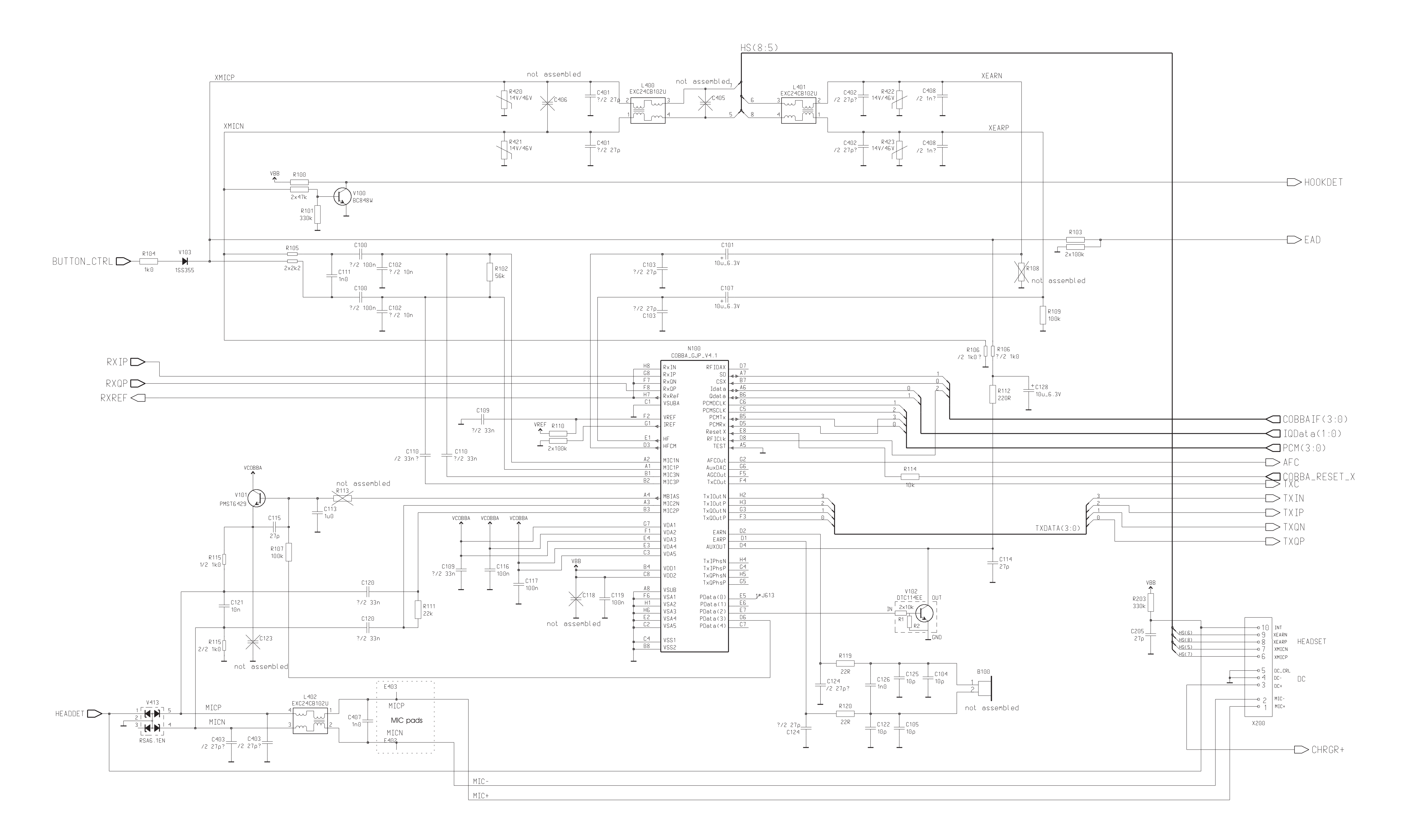
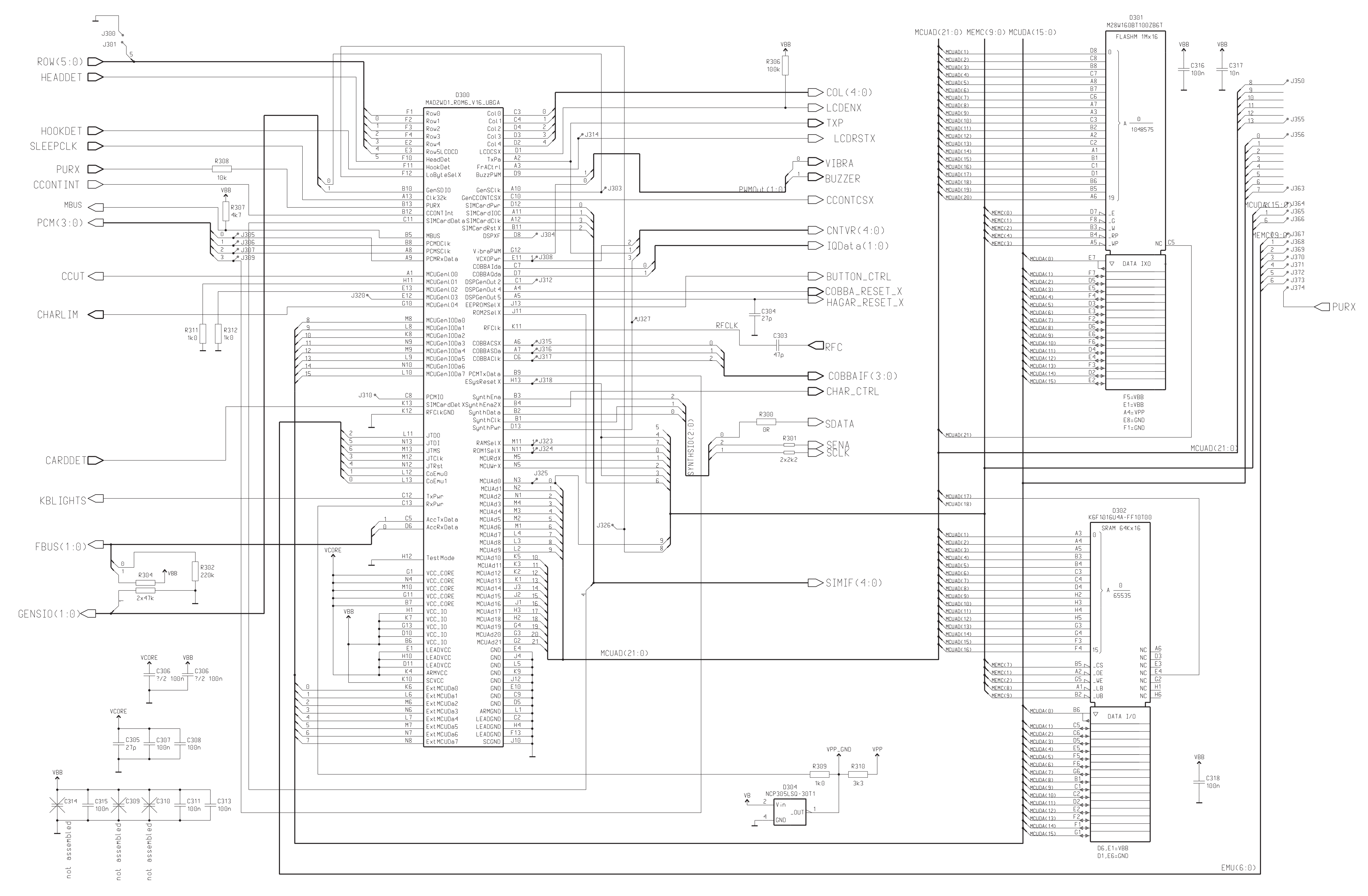


VBB_MAIN
CHRGR+
CCUT
EAD
CHAR_CTRL
MBUS
BB/RF
VBATT
VCP
VREF_2
VSYN_1
VSYN_2
VRX
VTX
VXO
GENSIO(1:0)
CCONTCSX
PURX
CCONTINT
SLEEPCLK
HGR_TEMP
SIMIF(4:0)
CNTVR(4:0)
PCM(3:0)
FBUS(1:0)
CHARLIM
CARDDET
PWRONX
N200 CHAPS_U423V2G367
N201 CCONT2M
C247 CLOSE TO N201
NOTE:SENSE CONNECTED CLOSE TO L513
CLOSE TO D300
Only used for DAI-test
not assembled



HS(8:5)
XMICP
XMICN
XEARN
XEARP
not assembled
L400
EXC24CB102U
L401
EXC24CB102U
HOOKDET
EAD
BUTTON_CTRL
RXIP
RXQP
RXREF
N100
COBBA_GJP_V4.1
COBBAIF(3:0)
IQData(1:0)
PCM(3:0)
AFC
COBBA_RESET_X
TXC
TXIN
TXIP
TXQN
TXQP
TXDATA(3:0)
HEADSET
DC
X200
CHRGR+
HEADDET
MICP
MICN
MIC pads
MIC-
MIC+
L402
EXC24CB102U
V413
RSA6.1EN
B100
V102
DTC114EE
V101
PMST6429
V100
BC848W

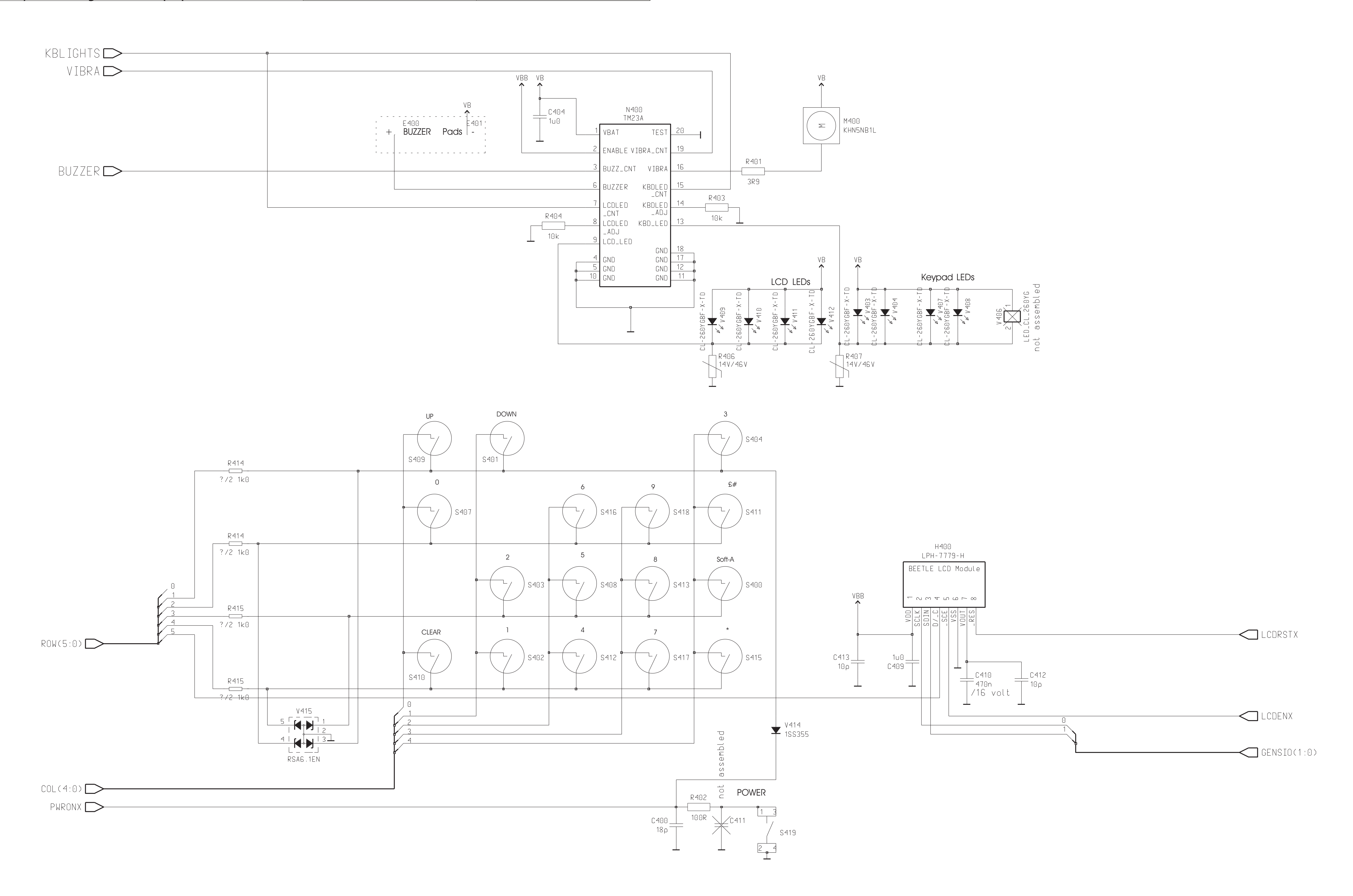


FOR PCB UP TO VERSION 09

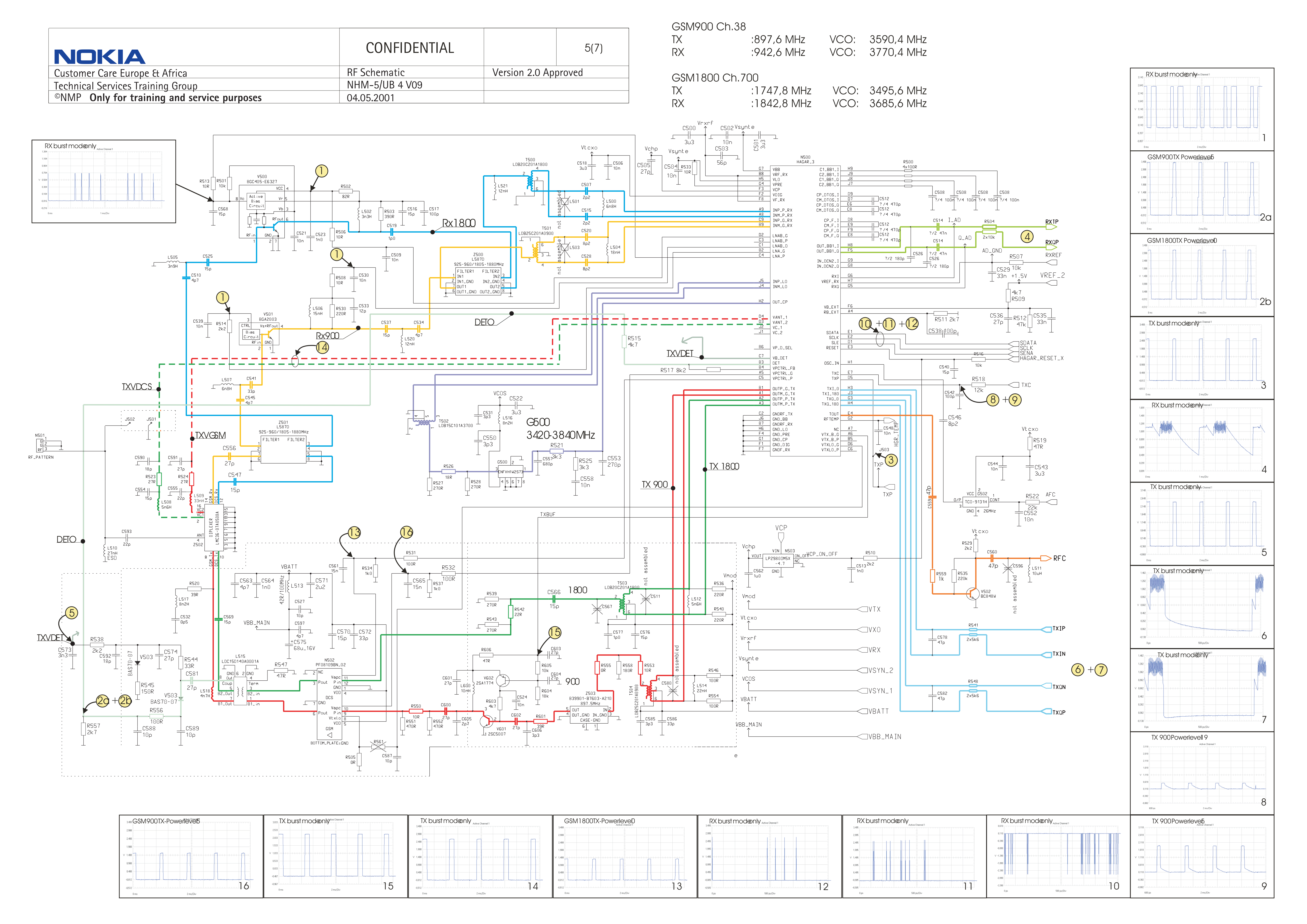
PA vendor detection			
PA vendor	Part. no.	R312 (PA_vendor2)	R311 (PA_vendor1)
RFMD	435X231	add	del
Philips	435X194	del	add
Hitachi	4350259	del	del

PCB VERSION 10 AND LATER

PA vendor detection			
PA vendor	Part. no.	R312 (PA_vendor2)	R311 (PA_vendor1)
RFMD	435X231	MOUNTED	MOUNTED
Philips	435X194		MOUNTED
Hitachi	4350259	MOUNTED	

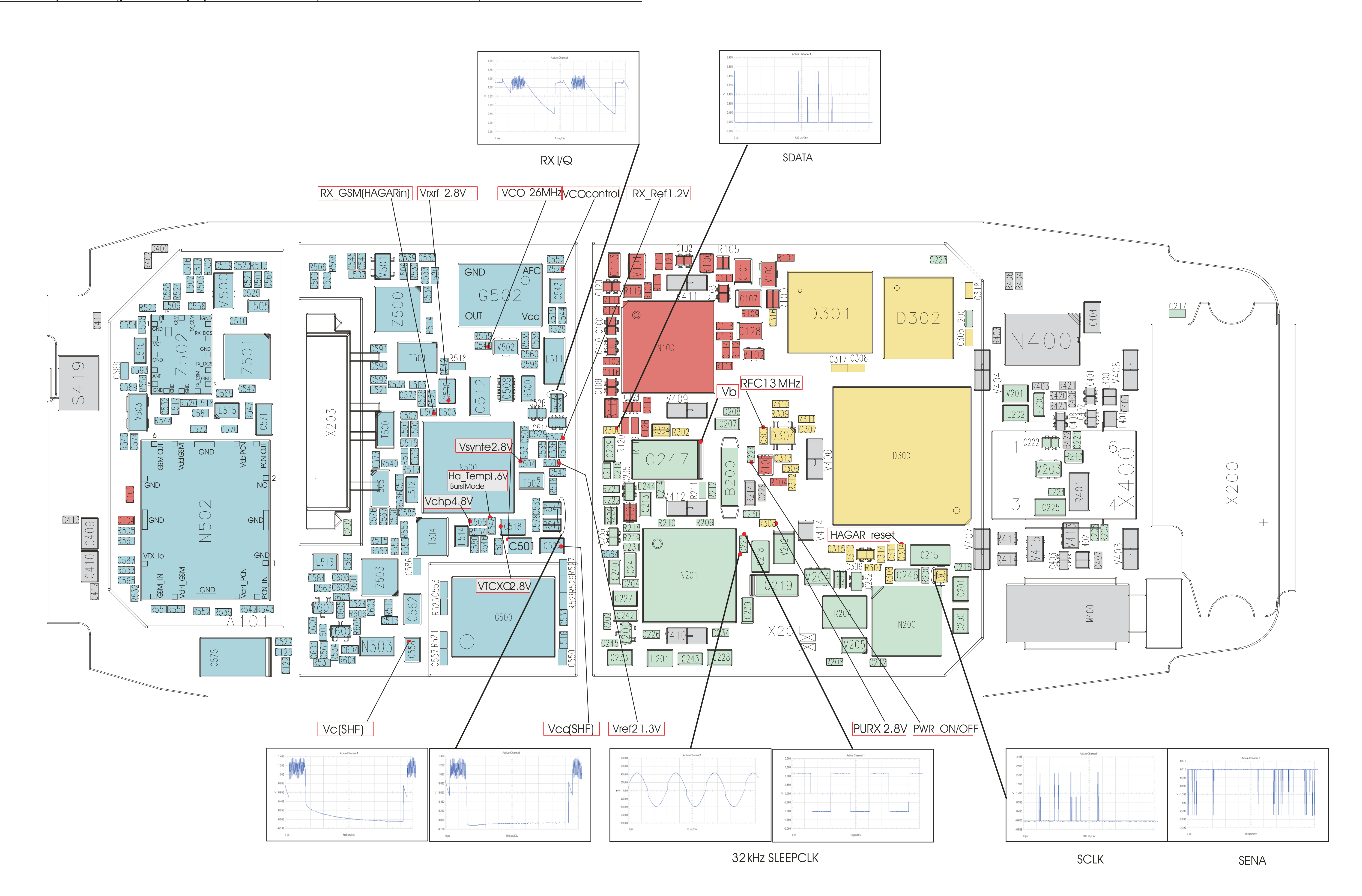


KBLIGHTS
VIBRA
BUZZER
VBB
VB
C404
1u0
N400
TM23A
VBAT
TEST
ENABLE VIBRA_CNT
BUZZ_CNT
VIBRA
BUZZER
KBDLED_CNT
LCDLED_CNT
KBDLED_ADJ
LCDLED_ADJ
KBD_LED
LCD_LED
GND
E400
BUZZER
Pads
E401
R401
3R9
R403
10k
R404
10k
M400
KHN5NB1L
LCD LEDs
Keypad LEDs
V409
V410
V411
V412
V403
V404
V407
V408
V406
LED_CL_260YG
not assembled
R406
14V/46V
R407
14V/46V
UP
DOWN
S409
S401
S404
S407
S416
S418
S411
S403
S408
S413
S400
CLEAR
S410
S402
S412
S417
S415
Soft-A
R414
?/2 1k0
R415
ROW(5:0)
V415
RSA6.1EN
COL(4:0)
PWRONX
H400
LPH-7779-H
BEETLE LCD Module
VDD
SCLK
SDIN
D/C
SCE
VSS
VOUT
RES
C413
10p
1u0
C409
C410
470n
/16 volt
C412
10p
LCDRSTX
LCDENX
GENSIO(1:0)
V414
1SS355
not assembled
POWER
R402
100R
C408
18p
C411
S419


NOKIA
CONFIDENTIAL
5(7)
Customer Care Europe & Africa
Technical Services Training Group
©NMP Only for training and service purposes
RF Schematic
NHM-5/UB 4 V09
04.05.2001
Version 2.0 Approved
GSM900 Ch.38
TX :897,6 MHz VCO: 3590,4 MHz
RX :942,6 MHz VCO: 3770,4 MHz
GSM1800 Ch.700
TX :1747,8 MHz VCO: 3495,6 MHz
RX :1842,8 MHz VCO: 3685,6 MHz
RX burst mode only
GSM900TX Powerlevel 5
GSM1800TX Powerlevel 0
TX burst mode only
TX 900 Powerlevel 9
TX 900 Powerlevel 5
Rx1800
Rx900
TX 1800
TX 900
G500
3420-3840MHz
DETO
TXVDET
TXVDCS
TXVGSM
RXIP
RXQP
RXREF
VREF_2
TXC
AFC
RFC
TXIP
TXIN
TXQN
TXQP
VTX
VXO
VRX
VSYN_2
VSYN_1
VBATT
VBB_MAIN
SDATA
SCLK
SENA
HAGAR_RESET_X
1800
900
VCP
VBATT
VBB_MAIN

NOKIA	CONFIDENTIAL		6(7)
Customer Care Europe & Africa	Colored layout	Version 2.0 Approved	
Technical Services Training Group	NHM-5/UB 4 V09		
©NMP **Only for training and service purposes**	04.05.2001		

- -200
- 200-299
- 300-399
- 400-499
- 500-599



B
B200 - B4
C
C100 - C4
C101 - C4
C102 - C4
C103 - C4
C104 - B1
C105 - B1
C107 - C4
C109 - B4
C110 - C4
C111 - C4
C113 - C4
C114 - C4
C115 - C4
C116 - B4
C117 - B4
C119 - C4
C120 - C4
C121 - C4
C122 - A2
C124 - B4
C125 - A2
C126 - B4
C128 - C4
C200 - A6
C201 - A6
C202 - B2
C203 - B6
C204 - A4
C205 - A6
C207 - B4
C208 - B4
C209 - B4
C210 - B4
C211 - B4
C212 - A5
C213 - B4
C214 - B4
C215 - A5
C216 - A6
C217 - C7
C218 - A4
C219 - A5
C220 - A4
C221 - B6
C223 - C5
C224 - B6
C225 - B6
C226 - A4
C227 - A4
C228 - A4
C229 - B4
C230 - B4
C231 - A4
C232 - A5
C233 - A4
C234 - A4
C235 - B4
C236 - A4
C239 - A4
C240 - A4
C241 - A4
C242 - A4
C243 - A4
C246 - A5
C247 - B4
C303 - B4
C304 - A5
C305 - C6
C306 - A5
C307 - B5
C308 - B5
C311 - A5
C313 - B5
C315 - A5
C316 - C5
C317 - B5
C318 - C6
C400 - C1
C401 - B6
C402 - B6
C403 - A6
C404 - C6
C407 - A6
C408 - B6
C409 - A1
C410 - A1
C412 - A1
C413 - B1
C500 - B3
C501 - A3
C502 - B3
C503 - A6
C504 - B3
C505 - B3
C506 - A3
C507 - B2
C508 - B3
C509 - C1
C510 - C1
C511 - C2
C512 - B3
C513 - A2
C514 - B3
C515 - B2
C516 - C2
C517 - C2
C518 - B3
C519 - B1
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C522 - A3
C523 - B1
C524 - A2
C526 - B3
C527 - A2
C528 - B2
C529 - B2
C530 - C3
C531 - A3
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C533 - C3
C534 - C3
C535 - B3
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C537 - C3
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C539 - C2
C540 - B3
C541 - C2
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C556 - C1
C557 - A3
C558 - A2
C559 - C3
C560 - C3
C561 - B2
C562 - A2
C563 - A2
C564 - A2
C565 - A1
C566 - A2
C569 - B1
C570 - B1
C571 - B2
C572 - B1
C573 - B2
C574 - B1
C575 - A1
C576 - B2
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C581 - B1
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C587 - A1
C588 - B1
C589 - B1
C590 - C2
C591 - C2
C592 - B2
C593 - C1
C597 - A2
C600 - A2
C601 - A2
C602 - A2
C603 - A3
C604 - A2
C605 - A2
C606 - A2
D
D300 - B5
D301 - C5
D302 - C5
D304 - B5
F
F200 - B6
G
G500 - A3
G502 - C3
L
L200 - C6
L201 - A4
L202 - B6
L203 - B6
L400 - B6
L401 - B6
L402 - A6
L500 - B2
L502 - C1
L504 - B3
L506 - C2
L507 - C2
L508 - C1
L509 - C1
L510 - C1
L511 - C3
L512 - B2
L513 - A2
L514 - A3
L515 - B1
L516 - A3
L517 - B1
L520 - C3
L600 - A2
L515 - B1
M
M400 - A6
N
N100 - C4
N200 - A5
N201 - A4
N400 - C6
N500 - B3
N502 - B1
N503 - A2
R
R100 - C5
R101 - C5
R102 - C4
R103 - B4
R104 - B5
R105 - C4
R106 - C4
R107 - C4
R109 - C4
R110 - B4
R111 - C4
R112 - C4
R114 - C4
R115 - C4
R119 - B4
R120 - B4
R200 - A5
R202 - A4
R203 - A6
R204 - A5
R207 - B6
R208 - A5
R209 - B4
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R213 - B6
R214 - B4
R217 - A5
R218 - B4
R219 - A4
R220 - B4
R221 - B4
R222 - B4
R224 - B4
R301 - A5
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R304 - B4
R306 - A5
R307 - A5
R308 - B4
R309 - B5
R310 - B5
R311 - B5
R312 - B5
R401 - B6
R402 - C1
R403 - B6
R404 - C6
R406 - C6
R407 - C6
R414 - A6
R415 - A6
R420 - B6
R421 - B6
R422 - B6
R423 - B6
R500 - B3
R504 - B3
R506 - C2
R507 - B3
R508 - C2
R509 - B3
R510 - A2
R511 - B3
R512 - B3
R513 - C1
R514 - C3
R515 - B2
R516 - B3
R517 - B2
R518 - C3
R519 - C3
R520 - B1
R521 - A3
R522 - C3
R523 - C1
R524 - C1
R525 - A3
R526 - A3
R527 - A3
R528 - A3
R529 - C3
R530 - C2
R531 - B2
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R548 - B3
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R559 - C3
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R562 - C1
R564 - A4
R565 - C1
R601 - A2
R603 - A2
R604 - A2
R606 - A2
S
S419 - B1
T
T500 - B2
T501 - C2
T502 - B3
T504 - A3
T503 - B2
V
V100 - C4
V101 - C4
V102 - C4
V103 - B4
V200 - A4
V201 - B6
V202 - A5
V203 - B6
V204 - A5
V205 - A5
V413 - A6
V414 - A5
V415 - A6
V500 - C2
V501 - C2
V502 - C3
V503 - B1
V504 - B1
V601 - A2
V602 - A2
V403 - A7
V404 - B6
V407 - A6
V408 - B7
V409 - B4
V410 - A4
V411 - C4
V412 - B4
X
X200 - B7
X203 - B2
X400 - B6
Z
Z502 - C1
Z503 - A2
Z500 - C2
Z501 - C1
Z504 - B1

